(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 13 May 2004 (13.05.2004)

(10) International Publication Number

(51) International Patent Classification7: 31/485, 31/196, A61P 29/00

A61K 9/70,

WO 2004/039358 A1

(21) International Application Number:

PCT/JP2003/013836

- (22) International Filing Date: 29 October 2003 (29.10.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 2002-315257 30 October 2002 (30.10.2002) JP 60/425,397 15 November 2002 (15.11.2002)

- (71) Applicant (for all designated States except US): SHOWA DENKO K.K. [JP/JP]; 13-9, Shiba Daimon 1-chome, Minato-ku, Tokyo 105-8518 (JP).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): ISHII, Tetsuya [JP/JP]; Production & Technology Control Department, Specialty Chemicals Division, SHOWA DENKO K.K., 5-1, Ogimachi, Kawasaki-ku, Kawasaki-shi, Kanagawa 210-0867 (JP).
- (74) Agent: OHIE, Kunihisa; Ohie Patent Office, Horiguchi No. 2, Bldg. 7F, 2-6, Nihonbashi-Ningyocho 2-chome, Chuo-ku, Tokyo 103-0013 (JP).

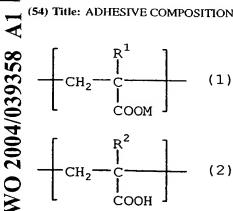
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL. IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ADHESIVE COMPOSITION FOR DERMAL PATCH AND PRODUCTION PROCESS THEREOF



$$\begin{array}{c|c}
 & R^2 \\
 & C \\
 & COOH
\end{array}$$
(2)

((571): Abstract: An adhesive composition for dermal patches, comprising (A) a (meth)acrylic acid-base polymer having repeating units represented by formulae (1) and (2): (wherein R1 and R2 each independently represents a hydrogen atom or a methyl group and M represents NH₄+ or an alkali metal) with the ratio of (1)/(2) being in a range of 100/0 to 90/10 (by mol), (B) water, (C) a polyhydric alcohol and (D) an aluminum compound, with the content of (B) water being from 5 to 30 mass%; and a production process thereof. The adhesive composition for dermal patch of the present invention can contain a large amount of polyhydric alcohol between skeletons of the adhesive layer and forms a stable between skeletons of the adhesive layer and forms a stable base material free from syneresis of the polyhydric alcohol. Furthermore, the dermal patch using the adhesive composition for dermal patch of the present invention is excellent in the release property and adherence and has high safety.